

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. Contract ID Code Cost-Plus-Fixed-Fee		Page 1 Of 7	
2. Amendment/Modification No.  P00007		3. Effective Date  2003DEC23		4. Requisition/Purchase Req No.  SEE SCHEDULE		5. Project No. (If applicable)	
6. Issued By  TACOM WARREN BLDG 231 AMSTA-AQ-ABGA ROSALIE WILLIAMSON (586)574-8089 WARREN, MICHIGAN 48397-5000 HTTP://CONTRACTING.TACOM.ARMY.MIL EMAIL: WILLIARO@TACOM.ARMY.MIL		Code W56HZV		7. Administered By (If other than Item 6)  OFFICE OF NAVAL RESEARCH BOSTON REGIONAL OFFICE 495 SUMMER STREET, ROOM 627 BOSTON, MA 02210-2109		Code N62879	
				SCD B PAS NONE ADP PT N62879			
8. Name And Address Of Contractor (No., Street, City, County, State and Zip Code)  UNIVERSITY OF CONNECTICUT OFFICE FOR SPONSORED PROGRAMS 438 WHITNEY ROAD EXTN, UNIT 1133 STORRS, CT. 06269-1133  TYPE BUSINESS: Other Educational				<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		9A. Amendment Of Solicitation No.  9B. Dated (See Item 11)  10A. Modification Of Contract/Order No. DAAE07-01-C-L081  10B. Dated (See Item 13) 2001AUG29	
Code 01NY7		Facility Code					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing items 8 and 15, and returning _____ copies of the amendments: (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. Accounting And Appropriation Data (If required) ACRN: AD NET INCREASE: \$100,031.00							
13. THIS ITEM ONLY APPLIES TO MODIFICATIONS OF CONTRACTS/ORDERS It Modifies The Contract/Order No. As Described In Item 14.							
KIND MOD CODE: B							
<input type="checkbox"/> A. This Change Order is Issued Pursuant To: The Changes Set Forth In Item 14 Are Made In The Contract/Order No. In Item 10A.							
<input checked="" type="checkbox"/> B. The Above Numbered Contract/Order Is Modified To Reflect The Administrative Changes (such as changes in paying office, appropriation data, etc.) Set Forth In Item 14, Pursuant To The Authority of FAR 43.103(b).							
<input type="checkbox"/> C. This Supplemental Agreement Is Entered Into Pursuant To Authority Of:							
<input type="checkbox"/> D. Other (Specify type of modification and authority)							
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return _____ copies to the Issuing Office.							
14. Description Of Amendment/Modification (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)  SEE SECOND PAGE FOR DESCRIPTION							
Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. Name And Title Of Signer (Type or print)				16A. Name And Title Of Contracting Officer (Type or print) DEREK MCALEER MCALEERD@TACOM.ARMY.MIL (586)574-7197			
15B. Contractor/Offeror  (Signature of person authorized to sign)		15C. Date Signed		16B. United States Of America  By _____ /SIGNED/ (Signature of Contracting Officer)		16C. Date Signed  2003DEC23	
NSN 7540-01-152-8070 PREVIOUS EDITIONS UNUSABLE				30-105-02		STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243	

CONTINUATION SHEET	Reference No. of Document Being Continued		Page 2 of 7
	PIIN/SIIN DAAE07-01-C-L081	MOD/AMD P00007	
Name of Offeror or Contractor: UNIVERSITY OF CONNECTICUT			

SECTION A - SUPPLEMENTAL INFORMATION

CONTRACT FOR;	Capacitor Analysis
PREVIOUS CONTRACT AMOUNT:	\$279,990.00
AMOUNT THIS ACTION:	\$100,031.00
TOTAL CONTRACT AMOUNT:	\$380,021.00
PREVIOUS AMOUNT OBLIGATED:	\$279,990.00
AMOUNT OBLIGATED BY THIS ACTION:	\$100,031.00
TOTAL AMOUNT OBLIGATED:	\$380,021.00

1. This is a bilateral modification.
2. The purpose of this modification is to acquire, pursuant to the Changes clause of the Contract, development and evaluation of modifications to end sprays and connections.
3. The contract is modified as follow:.

a. CLIN 0001 is revised to reflect the increase in the contract amount from \$279,990.00 to \$380,021.00

b. CLIN 0001AE is added to reflect the increase in funds currently available for performance.

c. Paragraphs B.3.2 and B.3.3 are revised to reflect funds currently available for performance.

d. Section C is revised to reflect the incorporation of paragraph C.2.3.1 into the statement of work.

c. The contract administration data for the additional funding is added.
3. As a result of this Modification P00007, the total amount of the contract is neither increased nor decreased.
4. All other terms and conditions of the contract remain unchanged and in full force and effect.

\*\*\* END OF NARRATIVE A 006 \*\*\*

Name of Offeror or Contractor: UNIVERSITY OF CONNECTICUT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001	<div>SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS</div> <div>SERVICES LINE ITEM</div> <div>SECURITY CLASS: Unclassified</div> <div>The contractor shall furnish all the supplies and services to accomplish the task specified in Section C "Scope of Work"</div> <div>Total Cost: \$380,021</div> <div>(End of narrative B001)</div>				
0001AE	<div>SERVICES LINE ITEM</div> <div>NOUN: UCONN DAAE07-01-C-L081 PRON: E142C100EH      PRON AMD: 01      ACRN: AD AMS CD: 63300544111</div> <div>Inspection and Acceptance</div> <div>INSPECTION: Destination      ACCEPTANCE: Destination</div> <div>Deliveries or Performance</div> <div>DLVR SCH      PERF COMPL</div> <div><div>REL CD      QUANTITY      DATE</div><div>001      0      SEE SECTION F</div></div> <div>\$      100,031.00</div>				\$ 100,031.00

B.1 ESTIMATED COST AND PAYMENT

B.1.1 The estimated cost for performance of the work under this contract is set forth in the Schedule, Section B. In consideration of performance of the work specified under each CLIN, the Government anticipates paying the Contractor the Estimated Cost amount shown. The amount shown initially includes the basic contract effort, and will be revised by the Government as appropriate to incorporate any options exercised. The estimated cost of CLIN 0001 shall constitute the estimated cost for the purpose of the Contract Clause entitled "Limitation of Funds", but neither the Government nor the Contractor guarantee the accuracy of said estimates.

B.1.2 Allowable cost shall be determined, and payment thereof shall be provided, in accordance with the Contract Clause hereof entitled "Allowable Cost and Payment".

B.2 INSURANCE:

B.2.1 The cost of insurance is included in the overhead rate and insurance cost included herein shall not be an item for separate reimbursement under this contract.

B.3 FUNDING:

B.3.1 The Government will provide funds under this contract covering the estimated cost hereof on an incremental basis as provided for in the following funding schedule and pursuant to the Contract clause entitled "Limitation of Funds". It is estimated that the incremental amounts are sufficient for the performance of work in each of the cited periods. The Government may, at its discretion, allot such funds on an incremental basis within each fiscal year. The Contractor shall so plan and execute the work required by this contract to expend and/or commit funds compatible with the schedule set forth below. Whenever the contractor has reason to believe that the funds allotted to this Contract for any cited period are either insufficient or excessive for the performance of work required in that cited period, the Government shall be so notified.

B.3.2 FUNDING SCHEDULE:

PERIOD	AMOUNT
Award through 30 Nov 01	\$ 50,000
1 Dec 01 through 30 Nov 02	\$ 71,492
1 Dec 02 through Completion	\$258,529

B.3.3 The amount of funds currently allotted to this contract is \$380,021

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b> <b>PIIN/SIIN</b> DAAE07-01-C-L081 <b>MOD/AMD</b> P00007	<b>Page</b> 5 <b>of</b> 7
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SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

C.1 BACKGROUND: The U.S. Army Tank Automotive and Armaments Command is currently pursuing technology developments which require advancements in High Energy Density (HED) Capacitors. This contract is to provide modeling analysis, testing, and consulting services to support ongoing HED capacitor development work and to broaden the fundamental understanding of capacitors under rapid discharge.

C.2 The contractor shall perform laboratory tests of dielectric films and fluids to baseline electrical parameters of these materials in an HED capacitor application. The candidate films and fluids shall be provided as GFE.

C.2.1 The contractor shall use data obtained in C.2 to calculate the materials electrical response as a function of time and temperature.

C.2.2 The contractor shall use the data obtained from C.2.1 to model theoretical optimizations of capacitor dielectric(s) and calculate the self-clearing characteristics of such a capacitor.

C.2.3 The contractor shall perform laboratory tests on the end spray and end connections of capacitors that will be utilized in the development of a transient nonlinear electrothermal finite element computation to predict failure conditions of the end regions of capacitors.

C.2.3.1 The contractor shall utilize the commercial capacitor data collected in C.2.3 above and develop and evaluate modifications to these end sprays and connections. These modifications shall permit greater current capability.

C.2.4 The contractor shall perform laboratory tests on the dielectric relaxation of oil/paper-polymer capacitor structures.

C.2.5 The contractor shall conduct laboratory procedures and analysis on capacitor dielectric films to identify capacitor structures that demonstrate improved dielectric properties above standard films.

C.3 TECHNICAL SUPPORT: The contractor shall provide technical support by participating in Government In Process Review (IPR) meetings for Contract DAAE07-01-C-L043. The intent of this technical support is to provide the contractor with first hand information on the progress of work being performed on HED capacitor development in order to focus their test and modeling objectives and provide the Government with test data and modeling predictions of the capacitor performance. The contractor shall anticipate travel outside the local commute. This travel shall require up to thirteen trips (two days/trip) of travel to the Albuquerque NM and Washington DC areas. The IPR meetings will be scheduled as needed. The contractor shall be prepared to present their findings under this SOW at subsequent meetings.

C.4 REPORTS: The contractor shall provide the following reports.

C.4.1 DELIVERABLES: The contractor shall prepare all deliverables as specified in the applicable Data Item Description (DID), DD Form 1664. The data shall be furnished to the U.S. Government in accordance with the DID's quantities and schedules as set forth in the Contract Data Requirements List (CDRL) DD Form 1423. All reports/presentations are to be delivered electronically. All presentations shall be delivered in Power Point format. All electronic submissions shall be submitted in a file format compatible with existing Government software. Contact the COTR shown in Section G, FAR 52.242-4016, "Communications" to verify compatible/acceptable file format.

C.4.2 CONTRACT FUNDS STATUS REPORTS: The contractor shall submit monthly contract funds status reports in accordance with DI-MGMT-81468, DD 1423.

C.4.3 ANALYSIS REPORTS: The contractor shall provide their findings of capacitor performance in a technical report. The contractor shall perform analysis described in C.2, of data obtained at the capacitor IPR meetings, described in C.3, and submit these findings in the technical report on an as generated basis in accordance with DI-MGMT-80555. The reports shall be prepared in contractor format.

C.4.4 FINAL REPORT: The contractor shall submit a technical final report, in accordance with DI-MISC-80711A (T), DD 1423, 30 days before the end of contract. The final report shall be prepared in contractor format. The final report shall include test and modeling results, methods used, and recommendations.

C.5 MEETINGS: Meetings to resolve contract issues or discuss technical matters shall be scheduled on an as needed basis.

\*\*\* END OF NARRATIVE C 001 \*\*\*

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SECTION F - DELIVERIES OR PERFORMANCE

- F.1PERIOD(S) OF PERFORMANCE
- F.1.1The period of performance for the basic effort shall be forty two (42) months from the date of contract award.
- F.2All data will be delivered in accordance with DD Forms 1423.

\*\*\* END OF NARRATIVE F 001 \*\*\*

Name of Offeror or Contractor: UNIVERSITY OF CONNECTICUT

SECTION G - CONTRACT ADMINISTRATION DATA

LINE	PRON/ AMS CD/ <u>ITEM</u> <u>MIPR</u>		OBLG STAT/ <u>JOB ORD NO</u>		<u>PRIOR AMOUNT</u>		INCREASE/DECREASE <u>AMOUNT</u>		CUMULATIVE <u>AMOUNT</u>
0001AE	E142C100EH	AD	2	\$	0.00	\$	100,031.00	\$	100,031.00
	63300544111		42C100						
					NET CHANGE	\$	100,031.00		

SERVICE <u>NAME</u>	NET CHANGE <u>BY ACRN</u>		<u>ACCOUNTING CLASSIFICATION</u>			ACCOUNTING <u>STATION</u>		INCREASE/DECREASE <u>AMOUNT</u>
Army	AD	21	42040000046N6N7EP6330052516	S20113		W56HZV	\$	100,031.00
							NET CHANGE	\$ 100,031.00

		<u>PRIOR AMOUNT</u> <u>OF AWARD</u>		<u>INCREASE/DECREASE</u> <u>AMOUNT</u>		<u>CUMULATIVE</u> <u>OBLIG AMT</u>
NET CHANGE FOR AWARD:	\$	279,990.00	\$	100,031.00	\$	380,021.00